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NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the  
present  
NEWS 4 DEC 08 INPADOC: Legal status data reloaded  
NEWS 5 SEP 29 DISSABS now available on STN  
NEWS 6 OCT 10 PCTFULL: Two new display fields added  
NEWS 7 OCT 21 BIOSIS file reloaded and enhanced  
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced  
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NEWS 10 DEC 08 CABA reloaded with left truncation  
NEWS 11 DEC 08 IMS file names changed  
NEWS 12 DEC 09 Experimental property data collected by CAS now available  
in REGISTRY  
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAPLUS  
NEWS 14 DEC 17 DGENE: Two new display fields added  
NEWS 15 DEC 18 BIOTECHNO no longer updated  
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer  
available  
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS  
databases  
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields  
NEWS 19 DEC 22 ABI-INFORM now available on STN  
NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated  
and searchable  
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in  
CA/CAPLUS  
NEWS 22 FEB 05 German (DE) application and patent publication number format  
changes  
NEWS 23 MAR 03 MEDLINE and LMEADLINE reloaded  
NEWS 24 MAR 03 MEDLINE file segment of TOXCENTER reloaded  
NEWS 25 MAR 03 FRANCEPAT now available on STN  
  
NEWS EXPRESS MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004  
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## Refine Search

### Search Results -

Terms	Documents
L1 not L2	36

Database:

US Pre-Grant Publication Full-Text Database  
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US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Search:

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### Search History

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<i>DB=USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<u>L3</u>	l1 not L2	36	<u>L3</u>
<u>L2</u>	L1 with human	3	<u>L2</u>
<u>L1</u>	mannosyl transferase	39	<u>L1</u>

END OF SEARCH HISTORY

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=> S MANNOSYL TRANSFERASE  
L1 718 MANNOSYL TRANSFERASE

=> S SACCHAROMYCES AND ALG9  
L2 47 SACCHAROMYCES AND ALG9

=> S L2 AND L1  
L3 7 L2 AND L1

=> DUP REM L3  
PROCESSING COMPLETED FOR L3  
L4 1 DUP REM L3 (6 DUPLICATES REMOVED)

=> D

L4 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1  
AN 96293493 MEDLINE  
DN PubMed ID: 8692962  
TI Stepwise assembly of the lipid-linked oligosaccharide in the endoplasmic  
reticulum of \*\*\*saccharomyces\*\*\* cerevisiae: identification of the  
\*\*\*ALG9\*\*\* gene encoding a putative \*\*\*mannosyl\*\*\*  
\*\*\*transferase\*\*\*  
AU Burda P; te Heesen S; Brachat A; Wach A; Dusterhoft A; Aebi M  
CS Mikrobiologisches Institut, ETH Zurich, Switzerland.  
SO Proceedings of the National Academy of Sciences of the United States of  
America, (1996 Jul 9) 93 (14) 7160-5.  
Journal code: 7505876. ISSN: 0027-8424.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-X96417; GENBANK-Z49909  
EM 199608  
ED Entered STN: 19960911  
Last Updated on STN: 19960911  
Entered Medline: 19960829

L4 ANSWER 1 OF 1 MEDLINE on STN DUPLICATE 1  
AB The core oligosaccharide Glc3Man9GlcNAc2 is assembled at the membrane of the endoplasmic reticulum on the lipid carrier dolichyl pyrophosphate and transferred to selected asparagine residues of nascent polypeptide chains. This transfer is catalyzed by the oligosaccharyl transferase complex. Based on the synthetic phenotype of the oligosaccharyl transferase mutation wbp1 in combination with a deficiency in the assembly pathway of the oligosaccharide in \*\*\*Saccharomyces\*\*\* cerevisiae, we have identified the novel \*\*\*ALG9\*\*\* gene. We conclude that this locus encodes a putative \*\*\*mannosyl\*\*\* \*\*\*transferase\*\*\* because deletion of the gene led to accumulation of lipid-linked Man6GlcNAc2 in vivo and to hypoglycosylation of secreted proteins. Using an approach combining genetic and biochemical techniques, we show that the assembly of the lipid-linked core oligosaccharide in the lumen of the endoplasmic reticulum occurs in a stepwise fashion.

=> S L1 AND HUMAN  
10 FILES SEARCHED...  
L5 53 L1 AND HUMAN

=> DUP REM L5  
PROCESSING COMPLETED FOR L5  
L6 27 DUP REM L5 (26 DUPLICATES REMOVED)

=> D 1-10

L6 ANSWER 1 OF 27 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2004-00858 BIOTECHDS  
TI Producing methylotroph yeast that expresses mammalian sugar chains by disrupting the OCH1 gene and inserting an alpha-1,2-mannosidase gene; vector-mediated gene transfer and expression in host cell for strain improvement and glycoprotein preparation  
AU KOBAYASHI K; KITAGAWA Y; KOMEDA T; KAWASHIMA N; JIGAMI Y; CHIBA Y  
PA KIRIN BEER KK; NAT INST ADVANCED IND SCI and TECHNOLOGY  
PI WO 2003091431 6 Nov 2003  
AI WO 2003-JP5464 28 Apr 2003  
PRAI JP 2002-127677 26 Apr 2002; JP 2002-127677 26 Apr 2002  
DT Patent  
LA Japanese  
OS WPI: 2003-854401 [79]

L6 ANSWER 2 OF 27 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
AN 2003-12361 BIOTECHDS  
TI New polypeptide comprising \*\*\*human\*\*\* \*\*\*mannosyl\*\*\* \*\*\*transferase\*\*\*, useful for diagnosing or predicting the susceptibility to a bipolar disorder and for identifying a compound that modulates the activity of a \*\*\*mannosyl\*\*\* \*\*\*transferase\*\*\*; expression profiling, transgenic mouse and drug screening for disorder diagnosis and gene therapy  
AU EVANS G A  
PA EGEA BIOSCIENCES INC  
PI WO 2003012064 13 Feb 2003  
AI WO 2002-US24490 2 Aug 2002  
PRAI US 2001-922225 2 Aug 2001; US 2001-922225 2 Aug 2001  
DT Patent  
LA English  
OS WPI: 2003-268116 [26]

L6 ANSWER 3 OF 27 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN  
AN 2003-903363 [82] WPIDS  
DNC C2003-256830  
TI Inhibition of the production of inflammatory cytokines for treating inflammatory disorders e.g. osteoarthritis involves administration of an inhibitor of N-glycosylation of proteins.  
DC B03  
IN GANU, V S; HU, S; KIMBLE, E F  
PA (NOVS) NOVARTIS AG; (NOVS) NOVARTIS PHARMA GMBH  
CYC 90  
PI WO 2003090758 A1 20031106 (200382)\* EN 13p A61K031-70  
RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR  
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH HR HU ID IL IN IS JP KE KG KP KR KZ

SK TJ TM TN TR TT UA US UZ VC VN YU ZA ZW  
ADT WO 2003090758 A1 WO 2003-EP4342 20030425  
PRAI US 2002-375935P 20020426  
IC ICM A61K031-70  
ICS A61P029-00  
.  
L6 ANSWER 4 OF 27 MEDLINE on STN  
AN 2003469976 MEDLINE  
DN PubMed ID: 14532067  
TI Molecular analysis of the rfb O antigen gene cluster of Salmonella  
enterica serogroup O:6,14 and development of a serogroup-specific PCR  
assay.  
AU Fitzgerald Collette; Sherwood Rachel; Gheesling Linda L; Brenner Frances  
W; Fields Patricia I  
CS Foodborne and Diarrheal Diseases Branch, Division of Bacterial and Mycotic  
Diseases, National Center for Infectious Diseases, Centers for Disease  
Control and Prevention, Atlanta, Georgia 30333, USA.. chf3@cdc.gov  
SO Applied and environmental microbiology, (2003 Oct) 69 (10) 6099-105.  
Journal code: 7605801. ISSN: 0099-2240.  
CY United States  
DT (EVALUATION STUDIES)  
Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-AY334017  
EM 200402  
ED Entered STN: 20031009  
Last Updated on STN: 20040204  
Entered Medline: 20040203  
  
L6 ANSWER 5 OF 27 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN  
AN 2003493394 EMBASE  
TI Morphogenesis of type II lissencephaly: Neuropathology, genetics and  
pathomechanisms.  
AU Stoltenburg-Didinger G.; Steinbrecher A.  
CS G. Stoltenburg-Didinger, Department of Neuropathology, Univ. Hospital  
Benjamin Franklin, Hindenburgdamm 30, D-12200 Berlin, Germany.  
gsd@zedat.fu-berlin.de  
SO Neuroembryology, (2003) 2/1 (32-39).  
Refs: 49  
ISSN: 1424-8522 CODEN: NEURHP  
CY Switzerland  
DT Journal; (Short Survey)  
FS 005 General Pathology and Pathological Anatomy  
008 Neurology and Neurosurgery  
021 Developmental Biology and Teratology  
022 Human Genetics  
LA English  
SL English  
  
L6 ANSWER 6 OF 27 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN  
AN 2003:32754 SCISEARCH  
GA The Genuine Article (R) Number: 626FW  
TI Characterization of POMT2, a novel member of the PMT protein  
O-mannosyltransferase family specifically localized to the acrosome of  
mammalian spermatids  
AU Willer T; Amselgruber W; Deutzmann R; Strahl S (Reprint)  
CS Univ Regensburg, Lehrstuhl Zellbiol & Pflanzenphysiol, D-93040 Regensburg,  
Germany (Reprint); Univ Hohenheim, Inst Anat & Physiol Haustiere, D-70593  
Stuttgart, Germany; Univ Regensburg, Lehrstuhl Biochem, D-93040  
Regensburg, Germany  
CYA Germany  
SO GLYCOBIOLOGY, (NOV 2002) vol. 12, No. 11, pp. 771-783.  
Publisher: OXFORD UNIV PRESS INC, JOURNALS DEPT, 2001 EVANS RD, CARY, NC  
27513 USA.  
ISSN: 0959-6658.  
DT Article; Journal  
LA English  
REC Reference Count: 59  
\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS\*  
  
L6 ANSWER 7 OF 27 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 2002:609035 BIOSIS  
DN PREV200200609035

gene pimB alters the mycobacterial cell wall and leads to enhanced macrophage killing.  
 AU DesJardin, L. E. [Reprint author]; MacNeil, J.; Kaufman, T.; Kutzbach, B.;  
 CS Besra, G.; Gurucha, S.; Clegg, S.; Schlesinger, L. [Reprint author]  
 SD Veterans Admin. Medical Center and University of Iowa, Iowa City, IA, USA  
 Abstracts of the General Meeting of the American Society for Microbiology,  
 (2002) vol. 102, pp. 488. print.  
 Meeting Info.: 102nd General Meeting of the American Society for  
 Microbiology. Salt Lake City, UT, USA. May 19-23, 2002. American Society  
 for Microbiology.  
 ISSN: 1060-2011.  
 DT Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LA English  
 ED Entered STN: 27 Nov 2002  
 Last Updated on STN: 27 Nov 2002

L6 ANSWER 8 OF 27 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 AN 2002:606864 BIOSIS  
 DN PREV200200606864  
 TI Evidence for genetic heterogeneity of the walker Warburg Syndrome, a  
 disorder of neuronal migration.  
 AU Carrier, S. [Reprint author]; de Bernabe, D. B. Valero; Kim, S. [Reprint  
 author]; Bodell, A. [Reprint author]; Huang, D. [Reprint author]; Cherry,  
 T. J. [Reprint author]; Dobyns, W. B.; Bokhoven, H. V.; Brunner, H. G.;  
 Walsh, C. A. [Reprint author]  
 CS Neurology, Beth Israel Deaconess Medical Center and Harvard Medical  
 School, Boston, MA, 02115, USA  
 SO American Journal of Human Genetics, (October, 2002) Vol. 71, No. 4  
 Supplement, pp. 258. print.  
 Meeting Info.: 52nd Annual Meeting of the American Society of Human  
 Genetics. Baltimore, MD, USA. October 15-19, 2002. American Society of  
 Human Genetics.  
 CODEN: AJHGAG. ISSN: 0002-9297.  
 DT Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LA English  
 ED Entered STN: 27 Nov 2002  
 Last Updated on STN: 27 Nov 2002

L6 ANSWER 9 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2002:706479 HCAPLUS  
 DN 137:243092  
 TI \*\*\*Human\*\*\* mannosyltransferase sequence homolog, protein and cDNA  
 sequences, recombinant production and diagnostic and therapeutic uses  
 IN Mao, Yumin; Xie, Yi  
 PA Shengyuan Gene Development Co., Ltd., Peop. Rep. China  
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 24 pp.  
 CODEN: CNXXEV

DT Patent  
 LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1328145	A	20011226	CN 2000-116470	20000613
PRAI	CN 2000-116470		20000613		

L6 ANSWER 10 OF 27 MEDLINE on STN DUPLICATE 3  
 AN 2001331294 MEDLINE  
 DN PubMed ID: 11398981  
 TI NMR studies of mannitol-terminating oligosaccharides derived by reductive  
 alkaline hydrolysis from brain glycoproteins.  
 AU Kogelberg H; Chai W; Feizi T; Lawson A M  
 CS The Glycosciences Laboratory, Imperial College School of Medicine,  
 Northwick Park Hospital, Harrow, Middlesex, UK.. h.kogelberg@ic.ac.uk  
 SO Carbohydrate research, (2001 Apr 23) 331 (4) 393-401.  
 Journal code: 0043535. ISSN: 0008-6215.  
 CY Netherlands  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 200111  
 ED Entered STN: 20011105  
 Last Updated on STN: 20011105  
 Entered Medline: 20011101

=> D 9 AB

L6 ANSWER 9 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
AB The invention relates to a \*\*\*human\*\*\* mannosyltransferase sequence  
homolog, designated as mannosyltransferase (BioMTS) 32. The open reading  
frame of the cDNA encodes a protein with 288 amino acids, and an estd.  
mol. wt. of 32 kilodalton based on SDS-PAGE. The invention provides the  
use of polypeptide and polynucleotide in a method for treatment of various  
kinds of diseases, such as cancer and immune disease. The invention also  
relates to methods, expression vectors and host cells for recombinant  
prodn. of said mannosyltransferase sequence homolog. The invention also  
relates to agonist and antagonist of said mannosyltransferase sequence  
homolog and uses in therapy.

=> D 11-20

L6 ANSWER 11 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:297907 HCAPLUS  
DN 137:197983  
TI Glycosyl transferases and glycosidases of glycoprotein biosynthesis with  
emphasis on *Candida albicans* and *Entamoeba histolytica*  
AU Lopez-Romero, Everardo; Flores-Carreón, Arturo; Arroyo-Flores, Blanca L.;  
Torre-Bouscoulet, Ma. Eugenia; Bravo-Torres, Jose C.; Villagomez-Castro,  
Julio C.; Balcazar-Orozco, Rosalia  
CS Departamento de Genética y Biología Molecular, CINVESTAV del IPN, Mexico,  
07000, Mex.  
SO Recent Research Developments in Microbiology (2000), 4(Pt. 2), 667-681  
CODEN: RDMIFR  
PB Research Signpost  
DT Journal  
LA English  
RE.CNT 117 THERE ARE 117 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 12 OF 27 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 4  
AN 1999:273434 BIOSIS  
DN PREV199900273434  
TI Recombinant \*\*\*human\*\*\* interleukin-12 is the second example of a  
C-mannosylated protein.  
AU Doucey, Marie-Agnes; Hess, Daniel; Blommers, Marcel J. J.; Hofsteenge, Jan  
[Reprint author]  
CS Friedrich Miescher-Institut, CH-4002, Basel, Switzerland  
SO Glycobiology, (May, 1999) Vol. 9, No. 5, pp. 435-441. print.  
ISSN: 0959-6658.  
DT Article  
LA English  
ED Entered STN: 28 Jul 1999  
Last Updated on STN: 28 Jul 1999

L6 ANSWER 13 OF 27 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
AN 1999:324085 BIOSIS  
DN PREV199900324085  
TI *Cryptococcus neoformans* \*\*\*mannosyl\*\*\* \*\*\*transferase\*\*\* exhibits  
appropriate specificity for a role in capsule synthesis.  
AU Doering, T. L. [Reprint author]; Sommer, U. [Reprint author]  
CS Cornell University Medical College, New York, NY, USA  
SO Abstracts of the General Meeting of the American Society for Microbiology,  
(1999) Vol. 99, pp. 302. print.  
Meeting Info.: 99th General Meeting of the American Society for  
Microbiology. Chicago, Illinois, USA. May 30-June 3, 1999. American  
Society for Microbiology.  
ISSN: 1060-2011.  
DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
Conference; (Meeting Poster)  
LA English  
ED Entered STN: 24 Aug 1999  
Last Updated on STN: 24 Aug 1999

L6 ANSWER 14 OF 27 MEDLINE on STN DUPLICATE 5  
AN 1999296832 MEDLINE  
DN PubMed ID: 10366449

abdomen gene (POMT1) encoding a putative protein O- \*\*\*mannosyl\*\*\* -  
 \*\*\*transferase\*\*\*, and assignment to \*\*\*human\*\*\* chromosome 9q34.1.

AU Jurado L A; Coloma A; Cruces J  
 CS Facultad de Medicina, Universidad Autonoma de Madrid, Madrid, 28029,  
 Spain.. lpjurado@mvax.fmed  
 SO Genomics, (1999 Jun 1) 58 (2) 171-80.  
 Journal code: 8800135. ISSN: 0888-7543.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 OS GENBANK-AF095136; GENBANK-AF095137; GENBANK-AF095138; GENBANK-AF095139;  
 GENBANK-AF095140; GENBANK-AF095141; GENBANK-AF095142; GENBANK-AF095143;  
 GENBANK-AF095144; GENBANK-AF095145; GENBANK-AF095146; GENBANK-AF095147;  
 GENBANK-AF095148; GENBANK-AF095149; GENBANK-AF095150  
 EM 199908  
 ED Entered STN: 19990827  
 Last Updated on STN: 19990827  
 Entered Medline: 19990816

L6 ANSWER 15 OF 27 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
 AN 1998-09340 BIOTECHDS  
 TI Expression cassette for producing glycosyltransferase in secretable form;  
 lacking membrane anchor and Golgi retention signal, used for  
 oligosaccharide production  
 AU Paulson J G; Ujita-Lee E; Colley K J; Adler B; Browne J K; Weinstein J  
 PA Univ.California  
 LO Oakland, CA, USA.  
 PI US 5776772 7 Jul 1998  
 AI US 1996-593865 30 Jan 1996  
 PRAI US 1996-593865 30 Jan 1996  
 DT Patent  
 LA English  
 OS WPI: 1998-398046 [34]

L6 ANSWER 16 OF 27 MEDLINE on STN DUPLICATE 6  
 AN 1998301633 MEDLINE  
 DN PubMed ID: 9636208  
 TI Molecular analysis of CaMnt1p, a \*\*\*mannosyl\*\*\* \*\*\*transferase\*\*\*  
 important for adhesion and virulence of Candida albicans.  
 AU Buurman E T; Westwater C; Hube B; Brown A J; Odds F C; Gow N A  
 CS Department of Molecular and Cell Biology, Institute of Medical Sciences,  
 University of Aberdeen, Foresterhill, Aberdeen AB25 2ZD, United Kingdom.  
 SO Proceedings of the National Academy of Sciences of the United States of  
 America, (1998 Jun 23) 95 (13) 7670-5.  
 Journal code: 7505876. ISSN: 0027-8424.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 OS GENBANK-X99619  
 EM 199808  
 ED Entered STN: 19980817  
 Last Updated on STN: 19980817  
 Entered Medline: 19980806

L6 ANSWER 17 OF 27 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN  
 AN 1998:384158 BIOSIS  
 DN PREV199800384158  
 TI Protein-O-mannosylation: From yeast to man?  
 AU Tanner, W.; Gentzsch, M.; Strahl-Bolsinger, S.  
 CS Lehrstuhl Zellbiol. Pflanzenphysiol., Univ. Regensburg, 93040 Regensburg,  
 Germany  
 SO European Journal of Cell Biology, (1998) Vol. 75, No. SUPPL. 48, pp. 16.  
 print.  
 Meeting Info.: 22nd Annual Meeting of the Deutsche Gesellschaft fuer  
 Zellbiologie (German Society for Cell Biology). Saarbruecken, Germany.  
 March 15-19, 1998. German Society for Cell Biology.  
 CODEN: EJCBND. ISSN: 0171-9335.  
 DT Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LA English  
 ED Entered STN: 2 Sep 1998  
 Last Updated on STN: 2 Sep 1998



AN 97:107574 LIFESCI  
 TI \*\*\*Human\*\*\* and Saccharomyces cerevisiae dolichol phosphate mannose  
 synthases represent two classes of the enzyme, but both function in  
 Schizosaccharomyces pombe  
 AU Colussi, P.A.; Taron, C.H.; Mack, J.C.; Orlean, P.\*  
 CS Dep. Biochem., Univ. Illinois, 309 Roger Adams Lab., 600 South Mathews  
 Ave., Urbana, IL 61801, USA  
 SO PROC. NATL. ACAD. SCI. USA, (19970700) vol. 94, no. 15, pp. 7873-7878.  
 ISSN: 0027-8424.  
 DT Journal  
 FS N; G; K  
 LA English  
 SL English

L6 ANSWER 19 OF 27 MEDLINE on STN DUPLICATE 7  
 AN 1998066757 MEDLINE  
 DN PubMed ID: 9403053  
 TI A 2.5-Mb transcript map of a tumor-suppressing subchromosomal transferable  
 fragment from 11p15.5, and isolation and sequence analysis of three novel  
 genes.  
 AU Hu R J; Lee M P; Connors T D; Johnson L A; Burn T C; Su K; Landes G M;  
 Feinberg A P  
 CS Department of Medicine, Johns Hopkins University School of Medicine,  
 Baltimore, Maryland 21205, USA.  
 NC CA54358 (NCI)  
 SO Genomics, (1997 Nov 15) 46 (1) 9-17.  
 Journal code: 8800135. ISSN: 0888-7543.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 OS GENBANK-AF019952; GENBANK-AF019953  
 EM 199801  
 ED Entered STN: 19980129  
 Last Updated on STN: 19980129  
 Entered Medline: 19980113

L6 ANSWER 20 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1996:626796 HCAPLUS  
 DN 125:267217  
 TI PIG-B, a membrane protein of the endoplasmic reticulum with a large  
 lumenal domain, is involved in transferring the third mannose of the GPI  
 anchor  
 AU Takahashi, M.; Inoue, N.; Ohishi, K.; Maeda, Y.; nakamura, N.; Endo, Y.;  
 Fujita, T.; Takeda, J.; Kinoshita, T.  
 CS Research Institute for Microbial Diseases, Osaka University, Suita, 565,  
 Japan  
 SO EMBO Journal (1996), 15(16), 4254-4261  
 CODEN: EMJODG; ISSN: 0261-4189  
 PB Oxford University Press  
 DT Journal  
 LA English

=> D 14, 17, 18 AB

L6 ANSWER 14 OF 27 MEDLINE on STN DUPLICATE 5  
 AB We have isolated a \*\*\*human\*\*\* gene homologous to Drosophila  
 melanogaster rotated abdomen, rt, a poorly viable recessive mutation  
 causing a clockwise twisted abdomen in affected flies due to defects in  
 embryonic muscle development. The \*\*\*human\*\*\* gene, like rt, encodes  
 a protein with high homology to the yeast \*\*\*mannosyl\*\*\* -  
 \*\*\*transferases\*\*\* (Pmts) and has been named POMT1. POMT1 is expressed  
 as a 3.1-kb transcript in all tissues tested, with highest levels in  
 testis and fetal brain. Alternative splicing of several exons in all  
 tissues predicts the generation of several protein isoforms. The most  
 common mRNA variant encodes a 725-aa protein with 40% identity and 62.5%  
 similarity to rt, as well as 30.5% identity and 54% similarity to yeast  
 Pmts. Computer prediction of protein sorting suggests that the POMT1  
 product could be an integral protein of the endoplasmic reticulum  
 membrane. Given the strong conservation of protein motifs between POMT1  
 and the yeast Pmts, POMT1 may function as a \*\*\*mannosyl\*\*\* -  
 \*\*\*transferase\*\*\* involved in O-mannosylation of proteins, being the  
 first of such a class found in mammals. The POMT1 locus has been assigned  
 to \*\*\*human\*\*\* chromosome 9q34.1 by somatic cell hybrids, radiation

could be a candidate for uncharacterized genetic disorders of the muscular system, such as some forms of congenital muscular dystrophy or congenital myopathy.  
Copyright 1999 Academic Press.

L6 ANSWER 17 OF 27 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

L6 ANSWER 18 OF 27 LIFESCI COPYRIGHT 2004 CSA on STN

AB Dolichol phosphate mannose (Dol-P-Man), formed upon transfer of Man from GDPMan to Dol-P, is a mannosyl donor in pathways leading to N-glycosylation, glycosyl phosphatidylinositol membrane anchoring, and O-mannosylation of protein. Dol-P-Man synthase is an essential protein in *Saccharomyces cerevisiae*. We have cloned cDNAs encoding \*\*\*human\*\*\* and *Schizosaccharomyces pombe* proteins that resemble *S. cerevisiae* Dol-P-Man synthase. Disruption of the gene for the *S. pombe* Dol-P-Man synthase homolog, *dpml* super(+), is lethal. The known Dol-P-Man synthase sequences can be divided into two classes. One contains the *S. cerevisiae*, *Ustilago maydis*, and *Trypanosoma brucei* enzymes, which have a COOH-terminal hydrophobic domain, and the other contains the \*\*\*human\*\*\*, *S. pombe*, and *Caenorhabditis* synthases, which lack a hydrophobic COOH-terminal domain. The two classes of synthase are functionally equivalent, because *S. cerevisiae* DPM1 and its \*\*\*human\*\*\* counterpart both complement the lethal null mutation in *S. pombe* *dpml* super(+). The findings that Dol-P-Man synthase is essential in yeast and that the *Ustilago* and *Trypanosoma* synthases are in a different class from the \*\*\*human\*\*\* enzyme raise the possibility that Dol-P-Man synthase could be exploited as a target for inhibitors of pathogenic eukaryotic microbes.

=> D 21-27

L6 ANSWER 21 OF 27 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 1984:316035 BIOSIS

DN PREV198478052515; BA78:52515

TI LIPID MEDIATED GLYCOSYLATION IN \*\*\*HUMAN\*\*\* LIVER CHARACTERIZATION OF THE ENZYMATIC TRANSFER OF N ACETYL GLUCOSAMINE FROM UDP N ACETYL GLUCOSAMINE AND MANNOSE FROM GDP MANNOSE TO DOLICHYL PHOSPHATE.

AU ALHADEFF J A [Reprint author]; WATKINS P

CS DEP CHEM, SEELEY G MUDD BLDG, LEHIGH UNIV, BETHLEHAM, PA 18015, USA

SO Enzyme (Basel), (1984) Vol. 31, No. 2, pp. 90-103.

CODEN: ENZYBT. ISSN: 0013-9432.

DT Article

FS BA

LA ENGLISH

L6 ANSWER 22 OF 27 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 1984:219750 BIOSIS

DN PREV198477052734; BA77:52734

TI LIPID BOUND SUGARS IN MALIGNANT \*\*\*HUMAN\*\*\* BREAST TUMORS PARTIAL CHARACTERIZATION OF \*\*\*MANNOSYL\*\*\* \*\*\*TRANSFERASE\*\*\* AND GLUCOSYL TRANSFERASE ACTIVITIES.

AU SANTA CRUZ A R [Reprint author]; QUESADA ALLUE L A; BALDI A

CS INST BIOLOGIA AND MEDICINA EXP, FUNDACION CAMPOMAR, OBLIGADO 2490, 1428 BUENOS AIRES, ARGENTINA

SO Molecular and Cellular Biochemistry, (1983) Vol. 56, No. 1, pp. 55-66.

CODEN: MCBIB8. ISSN: 0300-8177.

DT Article

FS BA

LA ENGLISH

L6 ANSWER 23 OF 27 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 1984:283911 BIOSIS

DN PREV198478020391; BA78:20391

TI DOLICHYL PHOSPHATE \*\*\*MANNOSYL\*\*\* \*\*\*TRANSFERASE\*\*\* AND DOLICHYL PHOSPHATE N ACETYL GLUCOSAMINYL TRANSFERASE ACTIVITIES IN LIVER PREPARATIONS FROM NORMAL CONTROLS AND PATIENTS WITH CYSTIC FIBROSIS AND DIABETES MELLITUS.

AU ALHADEFF J A [Reprint author]; WATKINS P

CS DEP CHEMISTRY, SEELEY G MUDD BUILD, LEHIGH UNIV, BETHLEHEM, PA 18015, USA

SO Clinica Chimica Acta, (1983) Vol. 134, No. 1-2, pp. 1-10.

CODEN: CCATAR. ISSN: 0009-8981.

DT Article

FS BA

LA ENGLISH

AN 1983:231396 BIOSIS  
 DN PREV198375081396; BA75:81396  
 TI MANNOSYLATION OF GLYCO PROTEINS AND DOLICHOL DERIVATIVES IN FIBROBLASTS FROM PATIENTS WITH CYSTIC FIBROSIS.  
 AU BEN-YOSEPH Y [Reprint author]; DEFRANCO C L; NADLER H L  
 CS DEP PEDIATR, GENETIC RES LAB, SCOTT HALL ROOM 3136, WAYNE STATE UNIV SCH MED, 540 E CANFIELD AVE, DETROIT, MI 48201, USA  
 SO Biochimica et Biophysica Acta, (1982) Vol. 718, No. 2, pp. 172-176.  
 CODEN: BBACAQ. ISSN: 0006-3002.  
 DT Article  
 FS BA  
 LA ENGLISH

L6 ANSWER 25 OF 27 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 8

AN 1980:187500 BIOSIS  
 DN PREV198069062496; BA69:62496  
 TI METABOLIC ISOTOPIC LABELING OF PLASMA MEMBRANE GLYCO PROTEINS FROM NORMAL GLANZMANN AND BERNARD SOULIER PLATELETS.  
 AU SPITZ-CASTRO R [Reprint author]; MICHELENA V; SORRIBES V; RODRIGUEZ P  
 CS DEP BIOQUIM, CEN BIOFIS BIOQUIM, APDO 1827, CARACAS 101, VENEZ  
 SO Thrombosis Research, (1979) Vol. 16, No. 5-6, pp. 715-726.  
 CODEN: THBRAA. ISSN: 0049-3848.  
 DT Article  
 FS BA  
 LA ENGLISH

L6 ANSWER 26 OF 27 MEDLINE on STN

AN 73034758 MEDLINE  
 DN PubMed ID: 4673482  
 TI Biosynthesis of glycoproteins in the aortic wall. Study of intima microsome \*\*\*mannosyl\*\*\* - \*\*\*transferase\*\*\* activity.  
 AU Richard M; Broquet P; Louisot P  
 SO Journal of molecular and cellular cardiology, (1972 Oct) 4 (5) 465-75.  
 Journal code: 0262322. ISSN: 0022-2828.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 197301  
 ED Entered STN: 19900310  
 Last Updated on STN: 19970203  
 Entered Medline: 19730109

L6 ANSWER 27 OF 27 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 1972:106286 BIOSIS  
 DN PREV197253006286; BA53:6286  
 TI THE BIOSYNTHESIS OF GLYCO PROTEINS PART 21 STUDY OF THE MICROSOMAL \*\*\*MANNOSYL\*\*\* \*\*\*TRANSFERASE\*\*\* OF SPLENOCYTES.  
 AU RICHARD M; BROQUET P; GOT R; LOUISOT P  
 SO Biochimie (Paris), (1971) Vol. 53, No. 1, pp. 107-112.  
 CODEN: BICMBE. ISSN: 0300-9084.  
 DT Article  
 FS BA  
 LA Unavailable

=> DIS HIS

(FILE 'HOME' ENTERED AT 18:51:36 ON 07 MAR 2004)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 18:52:02 ON 07 MAR 2004

L1 718 S MANNOSYL TRANSFERASE  
 L2 47 S SACCHAROMYCES AND ALG9  
 L3 7 S L2 AND L1  
 L4 1 DUP REM L3 (6 DUPLICATES REMOVED)  
 L5 53 S L1 AND HUMAN  
 L6 27 DUP REM L5 (26 DUPLICATES REMOVED)

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